DOE/ID-10936
Revision 0
Project No. 23037
April 2004

Site 022 Track 1 Decision Documentation Package, Operable Unit 10-08

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Revision 0

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April 2004

Prepared for the
U.S. Department of Energy
Idaho Operations Office

DECISION DOCUMENTATION PACKAGE
COVER SHEET

Prepared in accordance with

TRACK 1 SITES:
GUIDANCE FOR ASSESSING
LOW PROBABILITY HAZARD SITES
AT THE INEL

Site Description: **Rusty Metal Debris Adjacent to Highway 28**

Site ID: 022 **Operable Unit: 10-08**

Waste Area Group: 10

I. SUMMARY – Physical description of the site:

Site 022 is a small debris pile located northwest of the Mud Lake/Terreton, Idaho area, approximately 200 ft south of Highway 28, and just north of the eastern sign marking the Idaho National Engineering and Environmental Laboratory (INEEL). Test Area North (TAN) is the closest INEEL facility (located approximately 7 mi southwest of the site). Site 022 was originally listed as part of an environmental baseline assessment in 1994 and identified as a potential new waste site in 1995. In accordance with Management Control Procedure -3448, "Reporting Potentially Hazardous Waste Sites," a new site identification form was completed for this site. As part of the identification and reporting process, a field team wrote a site description and collected photographs and global positioning system (GPS) coordinates of the site. The new site identification process also included a search and review of existing historical documentation.

Personnel from INEEL Waste Area Group (WAG) 10 and Cultural Resources investigated the site on June 26, 2001. They determined that due to the close proximity of the debris to Highway 28, the debris is likely a roadside trash dump containing solid domestic/agricultural waste. The pile is estimated to be 15 ft in diameter, and includes a pile of stamped metal machine parts; empty, rusted cans; broken glass; a rubber irrigation boot; and weathered wood. The stamped machine parts were identified as the lamination plates for the field windings of an electric motor. Specifically, they were removed from a high horsepower, low torque electrical engine. The motor was probably used as a pump for one of the Carey Land Act/Desert Reclamation Act irrigation projects in the area. The rusted cans and broken glass most likely were food cans, food bottles, and liquor bottles. They did not appear to contain any residual materials and are not likely to pose a threat to human health or the environment. It is likely that this waste was abandoned in place several decades ago (most items date to a 1960s–1970s timeframe). It was determined that there is no evidence to indicate that any of the debris found at the site is related to INEEL activities. A follow-up visit to the site by INEEL Cultural Resources personnel in April, 2003, confirmed that previous assessment. Photographs were taken and annotated, and they are included in this document.

There is no visual evidence of hazardous constituents, nor evidence that waste has recently been disposed of at this site. There is no evidence of disturbed vegetation, or stained or discolored soil. The ground surface shows well-established native grasses and sagebrush. The description of the site conditions is based on recent site investigations and INEEL Cultural Resource research; no other field screening or sample data exist for this site.

DECISION RECOMMENDATION

II. SUMMARY - Qualitative Assessment of Risk:

There is no evidence that a source of contamination exists at this site, nor is there empirical, circumstantial, or other evidence of contaminant migration. The reliability of information provided in this report is high. Field investigations, interviews with Cultural Resource personnel, and photographs revealed no visual evidence of hazardous substances that may present a danger to human health or the environment. Therefore, the overall qualitative risk at Site 022 is considered low.

III. SUMMARY - Consequences of Error:

False negative error:

The possibility of contaminant levels at this site being above risk-based limits is remote. Field investigations of the debris and surface soil showed no evidence of hazardous constituents, stained soil, odors, lack of vegetation, fibrous materials, or other indications of contamination.

False positive error:

If further action were completed at this low risk site, funds could exceed the environmental benefit. Surface soil sampling and analysis for organic compounds, metals, radionuclides or other hazardous constituents would be needed to confirm the presence or absence of contamination. Based on existing information, there is no need for further action at this site.

IV. SUMMARY - Other Decision Drivers:

There are no other decision drivers for this site.

Recommended Action:

It is recommended that this newly identified site be classified as No Action. Field investigations, interviews with Cultural Resource personnel, and photographs indicate it is highly unlikely that hazardous or radioactive materials were generated or disposed of at this site. The site is located in a remote, abandoned area with no viable pathways or receptors. Test Area North (TAN) is the closest INEEL facility (located approximately 7 mi southwest of the site), and Mud Lake is the closest residential area (located approximately 7.5 mi to the southeast). There is nothing present at this site that would indicate evidence of contaminant migration, or historical or threatened release of hazardous substances, pollutants, or contaminants. This site is similar to numerous other debris piles across the INEEL related to homesteads, agricultural areas, and roadside dumpsites contain domestic/agricultural waste that does not pose a threat to human health or the environment.

Signatures:	# Pages: 37	Date:
Prepared By: Wendell Jolley		DOE WAG Manager:
Approved By: Michael P. Holdren		Independent Review: Doug S. Vandel

DECISION STATEMENT
(DOE RPM) Site 022 / OU 10-08

Date Received: 8/24/04

Disposition:

No Action is appropriate for this small pile of trash which poses no threat to human health or the environment. Further investigation would actually disrupt the re-vegetation of the area and cause harm to the environment.

Date: 9/3/04	# Pages: 1
Name: Kathleen E. Hain	Signature: Kathleen E Hain

DECISION STATEMENT
(EPA RPM)

Date Received:

Disposition: Agree with the classification of No Action for site ID # 022.

Date: 4-28-04	# Pages:
Name: DENNIS Faulk	Signature:

DECISION STATEMENT
(IDEQ RPM)

Date Received: April 22, 2004

Disposition:

Site #022

This site is a small debris pile located about 7 miles northeast of Test Area North. The debris includes miscellaneous trash and a pile of stamped metal parts from what are attributed to electric motors probably used during the irrigation activities associated with the Land Reclamation Act. Most of the debris is attributed to the 1960s or 1970s. There is no evidence that the debris poses a threat to human health or the environment. DEQ concurs this is a No Action site.

Date: Daryl F. Koch	# Pages: 37
Name: April 29, 2004	Signature: Daryl F. Koch

DETERMINATION

The U.S Department of Energy, U.S Environmental Protection Agency Region 10, and Idaho Department of Environmental Quality have completed the review of the referenced information for Miscellaneous site 022 in Operable Unit 10-08 as it pertains to the INEEL Federal Facility Agreement and Consent Order of 1991. Based on this review, the Parties have determined that No Action for purposes of study or investigation should be initiated.

Brief summary of the basis for the action:

See Decision Statement Pages Pg # 3, 4, and 5 for Signatures

References:

DOE Project Manager _____ _____
Date

EPA Project Manager _____ _____
Date

IDEQ Project Manager _____ _____
Date

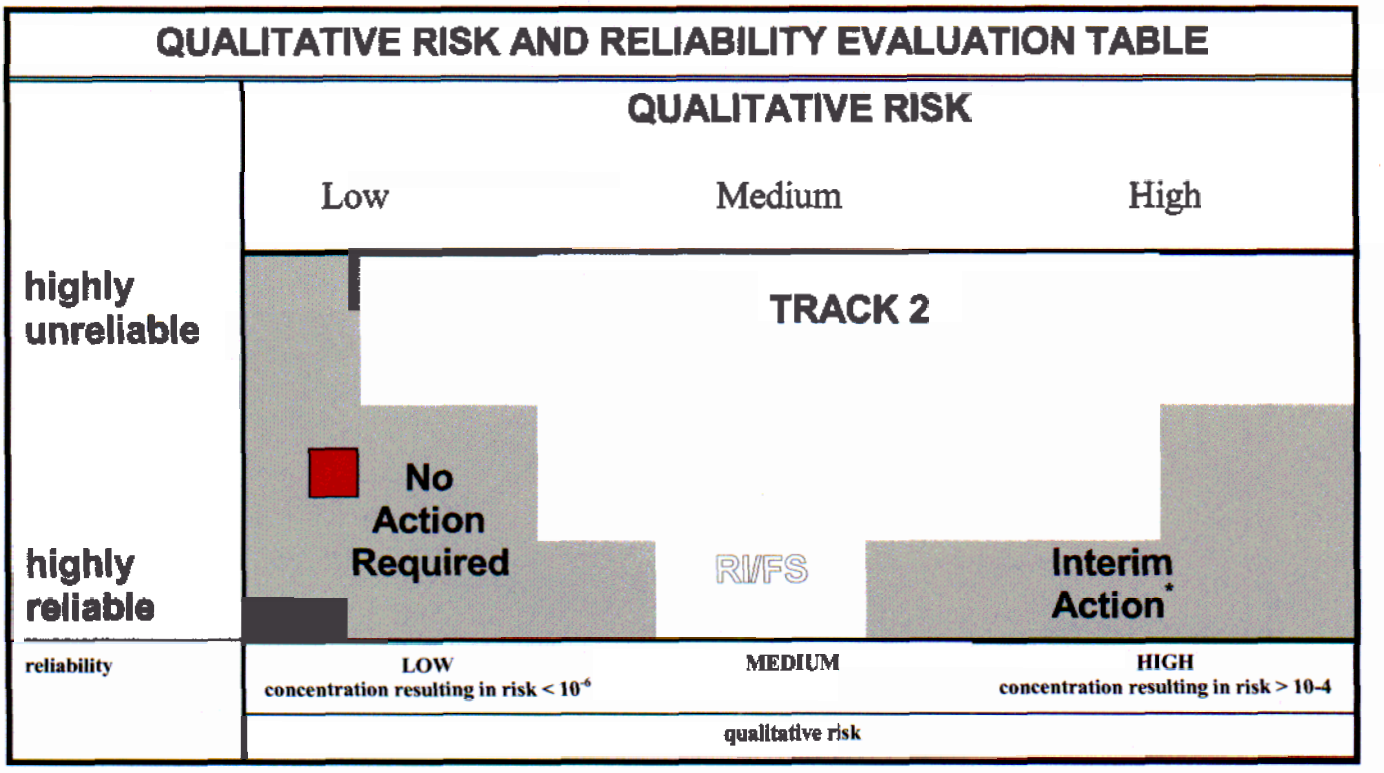
PROCESS/WASTE WORKSHEET ID: 022	PROCESS: Rusty Metal Debris Adjacent to Highway 28 WASTE: Domestic/Agricultural Waste	
Col 1 Processes Associated With this Site	**Col 2 Waste Description & Handling Procedures**	**Col 3 Description & Location of any Artifacts/Structures/Disposal Areas Associated with this Waste or Process**
Debris abandoned just south of Highway 28.	Domestic/agricultural waste likely abandoned by residents prior to establishment of the National Reactor Testing Station (NRTS), now INEEL.	**Artifact:** Domestic/agricultural waste **Location:** The site is located 200 ft south of Highway 28, just north of the eastern INEEL sign, and west of the Mudlake/Terreton area. **Description:** The debris consists of a pile of unidentified, rusted, stamped metal sheets; empty, rusted cans; broken glass; a work boot, and weathered wood.

CONTAMINANT WORKSHEET

SITE ID: 022

PROCESS: Rusty Metal Debris Adjacent to Highway 28 **WASTE:** Domestic/Agricultural Waste

Col 4 What Known/Potential Hazardous Substance/Constituents Are Associated with this Waste or Process?	Col 5 Potential Sources Associated with this Hazardous Material	Col 6 Known/Estimated Concentration of Hazardous Substances/ Constituents	Col 7 Risk-based Concentration	Col 8 Qualitative Risk Assessment (hi/med/low)	Col 9 Overall Reliability (high/med/low)
None	Soil	None	Not Applicable	Low	High



■ Risk from shallow injection well

Question 1. What are the waste generation processes, locations, and dates of operation associated with this site?

Block 1 Answer:

Site 022 appears to be a roadside trash dump, located west of the Mud Lake/Terreton area, and approximately 200 ft south of Highway 28. The debris includes a pile of unidentified, stamped, rusted metal sheets; empty rusted cans; broken glass; a work boot; and weathered wood. Personnel from INEEL Cultural Resources determined that the rusted cans contain no residuals, and do not pose a potential threat to human health or the environment. The debris is domestic/agricultural in nature, with items dating from the 1960s to 1970s.

Block 2 How reliable are the information sources? ☒ High ☐ Med ☐ Low (check one)
Explain the reasoning behind this evaluation.

A site investigation conducted by WAG 10 and INEEL Cultural Resource personnel revealed that the site is a former roadside domestic/agricultural trash dump. The artifacts found at the site are old, domestic/agricultural in nature, and likely pose no potential risk to human health or the environment.

Block 3 Has this INFORMATION been confirmed? ☒ Yes ☐ No (check one)
If so, describe the confirmation.

An investigation was conducted by INEEL WAG 10 and Cultural Resource personnel confirming that the site is a roadside trash dump, and that the artifacts are domestic/agricultural in nature, dating from the 1960s to 1970s.

Block 4 Sources of Information [check appropriate box(es) & source number from reference list]

No available information	☐	**Analytical data**	☐
Anecdotal	☒ 2, 5	**Documentation about data**	☐
Historical process data	☐	**Disposal data**	☐
Current process data	☐	**Q.A. data**	☐
Photographs	☒ 3	**Safety analysis report**	☐
Engineering/site drawings	☐	**D&D report**	☐
Unusual Occurrence Report	☐	**Initial assessment**	☒ 4
Summary documents	☐	**Well data**	☐
Facility SOPs	☐	**Construction data**	☐
OTHER	☐		

Question 2. What are the disposal processes, locations, and dates of operation associated with this site? How was the waste disposed?

Block 1 Answer:

Site 022 appears to be a domestic/agricultural roadside trash pile, likely resulting from its close proximity to Highway 28. The site is located within the boundaries of the INEEL, approximately 200 ft south of Highway 28, and just west of the Mud Lake/Terreton area. The TAN facility is the closest INEEL facility, located approximately 7 mi southwest. The debris includes a pile of stamped, rusted, metal electric motor parts; empty, rusted cans; broken glass; a work boot; and weathered wood. Personnel from INEEL Cultural Resources determined that the rusted cans contain no residuals, and do not pose a potential threat to human health or the environment. The debris is domestic/agricultural in nature, and dates to the 1960s – 1970s.

Block 2 How reliable are the information sources? ☒ High ☐ Med ☐ Low (check one)
Explain the reasoning behind this evaluation.

An investigation conducted by INEEL Cultural Resource personnel confirmed that this site is a domestic/agricultural trash dump unrelated to INEEL operations, and that it poses no potential threat to human health or the environment.

Block 3 Has this INFORMATION been confirmed? ☒ Yes ☐ No (check one)
If so, describe the confirmation.

Interviews and site investigations confirm that the site is a domestic/agricultural trash dump dating to the 1960s – 1970s. Photographs confirm the types of debris and current condition at the site.

Block 4 Sources of Information [check appropriate box(es) & source number from reference list]

No available information	☐	**Analytical data**	☐
Anecdotal	☒ 2, 5	**Documentation about data**	☐
Historical process data	☐	**Disposal data**	☐
Current process data	☐	**Q.A. data**	☐
Photographs	☒ 3	**Safety analysis report**	☐
Engineering/site drawings	☐	**D&D report**	☐
Unusual Occurrence Report	☐	**Initial assessment**	☒ 4
Summary documents	☐	**Well data**	☐
Facility SOPs	☐	**Construction data**	☐
OTHER	☐		

Question 3. Is there evidence that a source exists at this site? If so, list the sources and describe the evidence.

Block 1 Answer:

There is no visual evidence that a source exists at Site 022. There is no evidence of hazardous constituents, disturbed vegetation, stained or discolored soil or odors. During a June 26, 2001 site investigation conducted by INEEL Cultural Resources, it was noted that the debris pile likely resulted from roadside trash dumping and that the rusted cans within the debris contain no residual materials. The artifacts are considered to be very old, domestic/agricultural in nature, and unrelated to INEEL operations.

Block 2 How reliable are the information sources? ☒ High ☐ Med ☐ Low (check one) Explain the reasoning behind this evaluation.

Site investigations conducted by INEEL WAG 10 and Cultural Resource personnel revealed that the artifacts are old, weathered, unrelated to INEEL activities and pose no likely threat to human health or the environment.

Block 3 Has this information been confirmed? ☒ Yes ☐ No (check one) If so, describe the confirmation.

Interviews and site investigations confirm that the site is a domestic/agricultural trash pile. Photographs confirm the types of debris and current condition at the site.

Block 4 Sources of Information [check appropriate box(es) & source number from reference list]

No available information	☐	**Analytical data**	☐
Anecdotal	☒ **2, 5**	**Documentation about data**	☐
Historical process data	☐	**Disposal data**	☐
Current process data	☐	**Q.A. data**	☐
Photographs	☒ **3**	**Safety analysis report**	☐
Engineering/site drawings	☐	**D&D report**	☐
Unusual Occurrence Report	☐	**Initial assessment**	☒ **4**
Summary documents	☐	**Well data**	☐
Facility SOPs	☐	**Construction data**	☐
OTHER	☐		

Question 4. Is there empirical, circumstantial, or other evidence of migration? If so, what is it?

Block 1 Answer:

There is no evidence of migration at Site 022. Site investigations reveal no visual evidence of hazardous constituents, disturbed, stained or discolored soil areas, or odors, and the vegetation appears to be well established. Personnel from INEEL Cultural Resources determined that the artifacts are domestic/agricultural in nature, and likely resulted from roadside trash dumping. A June 26, 2001 site investigation conducted by Cultural Resource personnel revealed that the cans contain no residual material and therefore pose no likely threat. The debris is weathered, very old, and unrelated to INEEL operations.

Block 2 How reliable are the information sources? ☒ High ☐ Med ☐ Low (check one)
Explain the reasoning behind this evaluation.

Site inspections and photographs show that vegetation is well established, and thus give no indication of disturbance or the presence of contaminants.

Block 3 Has this information been confirmed? ☒ Yes ☐ No (check one)
If so, describe the confirmation.

This information was confirmed through site inspections during a 1994 environmental baseline assessment and a subsequent INEEL Cultural Resources investigation conducted in April 2003. Photographs taken of the site show well-established vegetation.

Block 4 Sources of Information [check appropriate box(es) & source number from reference list]

No available information	☐	**Analytical data**	☐
Anecdotal	☒ 2, 5	**Documentation about data**	☐
Historical process data	☐	**Disposal data**	☐
Current process data	☐	**Q.A. data**	☐
Photographs	☒ 3	**Safety analysis report**	☐
Engineering/site drawings	☐	**D&D report**	☐
Unusual Occurrence Report	☐	**Initial assessment**	☒ 4
Summary documents	☒ 1	**Well data**	☐
Facility SOPs	☐	**Construction data**	☐
OTHER	☐		

Question 5. Does site operating or disposal historical information allow estimation of the pattern of potential contamination? If the pattern is expected to be a scattering of hot spots, what is the expected minimum size of a significant hot spot?

Block 1 Answer:

There is no expected pattern of potential contamination because there is no evidence of hazardous substances at the site. There is no evidence of stained or discolored soil in the area, odors, or visual evidence of disturbed vegetation. The debris has been determined to be domestic/agricultural in nature and is unrelated to INEEL activities. The pattern of other hazardous constituents (organics, metals, radionuclides, etc.) cannot be estimated without further field screening or soil sampling beneath and around the debris pile. However, because of the age and weathered condition of the debris, it is highly unlikely that these contaminants would be present at levels above risk-based limits.

Block 2 How reliable are the information sources? ☒ High ☐ Med ☐ Low (check one)
Explain the reasoning behind this evaluation.

This information was obtained from an environmental baseline assessment conducted in 1994, and from a subsequent site investigation conducted by INEEL Cultural Resource personnel in 2003. The investigations reveal that the debris is domestic/agricultural in nature and likely resulted from roadside trash dumping. Photographs indicate that the soil is not stained or discolored and vegetation near the debris appears to be well established.

Block 3 Has this information been confirmed? ☒ Yes ☐ No (check one)
If so, describe the confirmation.

This information was confirmed through site inspections, photographs, and INEEL Cultural Resource historical research.

Block 4 Sources of Information [check appropriate box(es) & source number from reference list]

No available information	☐	**Analytical data**	☐
Anecdotal	☒ **2, 5**	**Documentation about data**	☐
Historical process data	☐	**Disposal data**	☐
Current process data	☐	**Q.A. data**	☐
Photographs	☒ **3**	**Safety analysis report**	☐
Engineering/site drawings	☐	**D&D report**	☐
Unusual Occurrence Report	☐	**Initial assessment**	☒ **4**
Summary documents	☒ **1**	**Well data**	☐
Facility SOPs	☐	**Construction data**	☐
OTHER	☐		

Question 6. Estimate the length, width, and depth of the contaminated region. What is the known or estimated volume of the source? If this is an estimated volume, explain carefully how the estimate was derived.

Block 1 Answer:

Site investigations and photographs indicate that Site 022 covers a ~15 ft-diameter area. The artifacts consist of rusty, electric motor parts; empty, rusted cans; broken glass; a work boot; and weathered wood. Personnel from INEEL Cultural Resources determined that the rusted cans contain no residual material and do not pose a likely threat to human health or the environment. The artifacts are old, weathered, and unrelated to INEEL activities. There is no evidence of a source at this site or a contaminated region to estimate because there is no evidence of hazardous or radioactive materials.

Block 2 How reliable are the information sources? ☒ High ☐ Med ☐ Low (check one) Explain the reasoning behind this evaluation.

This information was obtained from a 1994 environmental baseline assessment and subsequent site investigation conducted by INEEL WAG 10 and Cultural Resources personnel. Neither information source gave any indication that the artifacts contain anything that would cause potential contamination. Photographs of the area show well-established vegetation.

Block 3 Has this INFORMATION been confirmed? ☒ Yes ☐ No (check one) If so, describe the confirmation.

This information was confirmed through site inspections, interviews, and photographs.

Block 4 Sources of Information [check appropriate box(es) & source number from reference list]

No available information	☐	**Analytical data**	☐
Anecdotal	☒ 2, 5	**Documentation about data**	☐
Historical process data	☐	**Disposal data**	☐
Current process data	☐	**Q.A. data**	☐
Photographs	☒ 3	**Safety analysis report**	☐
Engineering/site drawings	☐	**D&D report**	☐
Unusual Occurrence Report	☐	**Initial assessment**	☒ 4
Summary documents	☐ 1	**Well data**	☐
Facility SOPs	☐	**Construction data**	☐
OTHER	☐		

Question 7. What is the known or estimated quantity of hazardous substance/constituent at this source? If the quantity is an estimate, explain carefully how the estimate was derived.

Block 1 Answer:

The estimated quantity of hazardous substances/constituents at this site is near zero, because there is no evidence of any hazardous or radioactive material present. The site consists of solid domestic/agricultural waste that likely resulted from roadside trash dumping, because of the close proximity to Highway 28. Personnel from INEEL Cultural Resources determined that the artifacts are old, extremely weathered, and likely predate INEEL operations.

Block 2 How reliable are the information sources? ☒ High ☐ Med ☐ Low (check one)
Explain the reasoning behind this evaluation.

This information was obtained from an environmental baseline assessment, INEEL Cultural Resource investigations, and photographs. The site investigations revealed no visual evidence of contamination. Photographs of the site show well-established vegetation, giving no indication of disturbance.

Block 3 Has this INFORMATION been confirmed? ☒ Yes ☐ No (check one)
If so, describe the confirmation.

This information was confirmed through site investigations, photographs, and INEEL Cultural Resource historical research.

Block 4 Sources of Information [check appropriate box(es) & source number from reference list]

No available information	☐	**Analytical data**	☐
Anecdotal	☒ 2, 5	**Documentation about data**	☐
Historical process data	☐	**Disposal data**	☐
Current process data	☐	**Q.A. data**	☐
Photographs	☒ 3	**3 Safety analysis report**	☐
Engineering/site drawings	☐	**D&D report**	☐
Unusual Occurrence Report	☐	**Initial assessment**	☒ 4
Summary documents	☒ 1	**Well data**	☐
Facility SOPs	☐	**Construction data**	☐
OTHER	☐		

Question 8. Is there evidence that this hazardous substance/constituent is present at the source as it exists today? If so, describe the evidence.

Block 1 Answer:

There is no evidence that a hazardous substance or constituent is present at levels that require action at this site. Personnel from INEEL Cultural Resources determined that the artifacts are likely a result of roadside trash dumping. The debris is domestic/agricultural in nature, old, weathered, and is unrelated to INEEL activities.

Block 2 How reliable are the information sources? ☒ High ☐ Med ☐ Low (check one) Explain the reasoning behind this evaluation.

This evaluation is based on interviews, site visitations, and photographs of the area. The site shows no soil staining, and the vegetation in and around the site appears to be well established. There is no evidence of hazardous constituents.

Block 3 Has this INFORMATION been confirmed? ☒ Yes ☐ No (check one) If so, describe the confirmation.

This information was confirmed through site inspections, INEEL Cultural Resource historical research, interviews, and photographs.

Block 4 Sources of Information [check appropriate box(es) & source number from reference list]

No available information	☐	**Analytical data**	☐
Anecdotal	☒ 2, 5	**Documentation about data**	☐
Historical process data	☐	**Disposal data**	☐
Current process data	☐	**Q.A. data**	☐
Photographs	☒ 3	**Safety analysis report**	☐
Engineering/site drawings	☐	**D&D report**	☐
Unusual Occurrence Report	☐	**Initial assessment**	☒4
Summary documents	☒ 1	**Well data**	☐
Facility SOPs	☐	**Construction data**	☐
OTHER	☐		

REFERENCES

1. DOE-ID, 1992, *Track 1 Sites: Guidance for Assessing Low Probability Sites at the INEL*, DOE/ID-10340(92), Revision 1, U.S. Department of Energy Idaho Operations Office; July 1992.

2. Interview conducted by Marilyn Paarmaan; (subject) Ramona Donihoo, Environmental Baseline Assessment team member; February 6-7, 2001.

3. Photographs of Site 022: PD 030363-01, PD 030363-02, and PD 030362-03.

4. INEEL company files, "FY 1999 WAG 10 Newly Identified Sites," Volumes I and II.

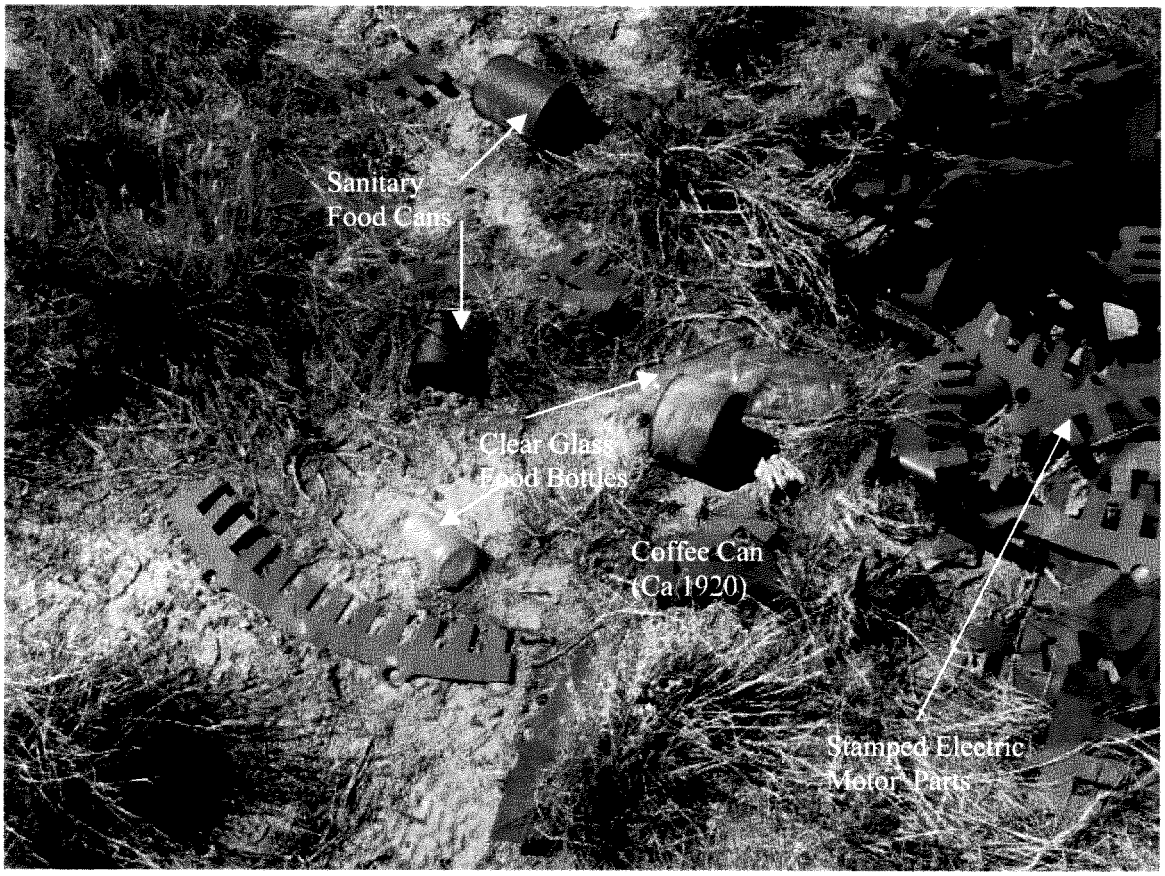
5. Site investigation conducted by Tom Haney, INEEL WAG 10; and Brenda Ringe Pace, INEEL Cultural Resources Management; June 26, 2001.

6. DOE-ID, 1991, *Federal Facility Agreement and Consent Order for the Idaho National Engineering Laboratory*, Administrative Record No. 1088-06-29-120, U.S. Department of Energy Idaho Operations Office; U.S. Environmental Protection Agency, Region 10; Idaho Department of Health and Welfare; December 4, 1991.

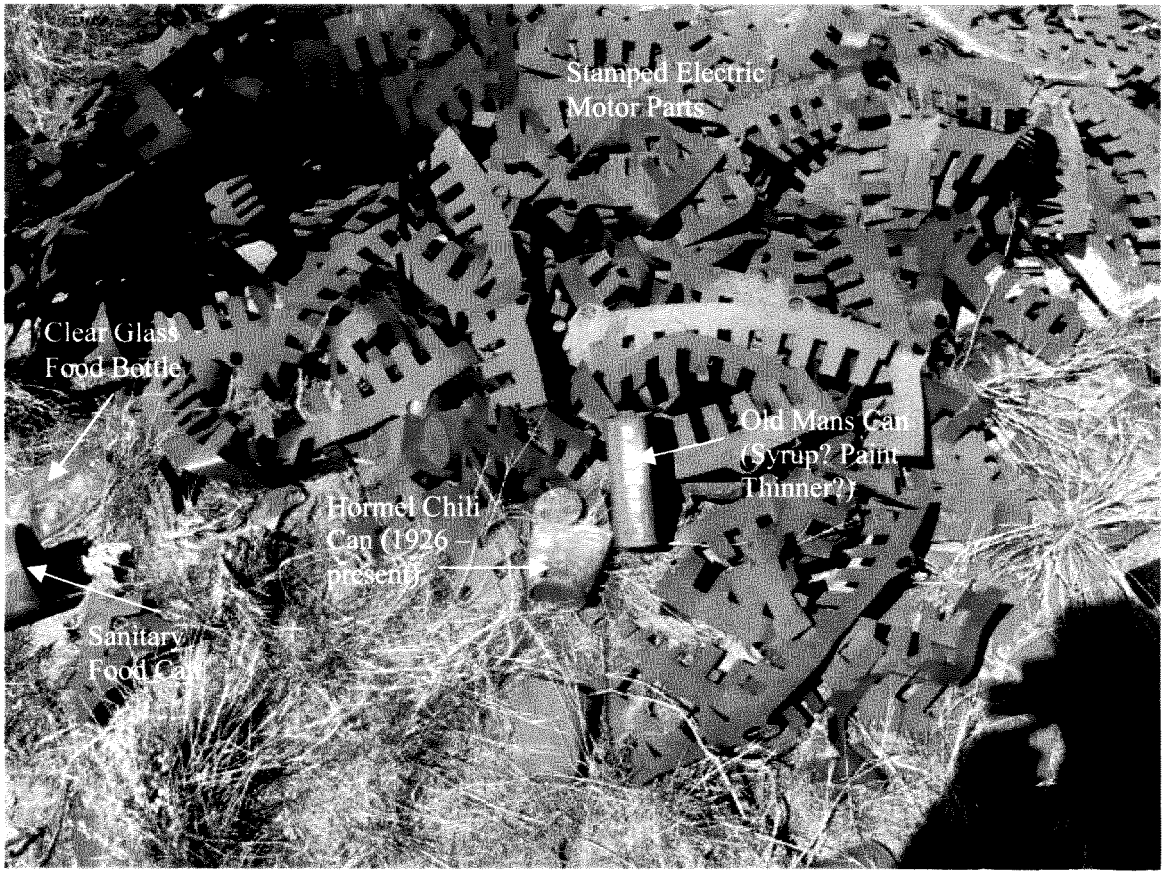
7. MCP-3448, 2003, "Reporting Potentially Hazardous Sites," Revision 4, *Manual 8—Environmental Protection and Compliance*, April 2003.

Attachment A

Photographs of Site #022



Site 022, Rusty Metal Debris Adjacent to Highway 28
(PD 030363-01)



Site 022, Rusty Metal Debris Adjacent to Highway 28
(PD 030363-02)

Site 022, Rusty Metal Debris Adjacent to Highway 28 (PD 030363-03)

Attachment B

Supporting Information for Site #022

Archeologist's Notes

Idaho National Engineering and Environmental Laboratory
Cultural Resource Management Office
Intermountain Antiquities Computer System

SITE FORM

Part A – Administrative Data

1. State No.: 10-JF- 2. Agency No.: n/a 3. Temp No. BBWI-03-17-02
4. State: Idaho County: Jefferson
5. Project: WAG 10 New Sites
6. Report No.: None
7. Site Name: New Site No. 022
8. Class: [ ] Prehistoric [X] Historic [ ] Paleontologic [ ] Ethnographic
9. Site Type: Refuse scatter
10. Elevation: 4795 ft. 11. UTM Grid Zone: 12 m E m N
12. SE 1/4 of SW 1/4 of SW 1/4 of Section 28 T. 7N R. 33E
13. Meridian: Boise
14. Map Reference: Monteview, Idaho 7.5'
15. Aerial Photo: None
16. Location and Access: Access restricted by INEEL Security. Travel north from Idaho Falls on Interstate 15 to Sage Junction exit 143 (approximately 25 mi). Travel west on Hwy 28/88 through Mud Lake and Terreton and to the point where these Highways divide (approximately16 mi). Continue on Hwy 28 toward Salmon approximately 6.2 mi further. The site is located approximately 65 meters southwest of the Highway in a flat and topographically featureless area.
17. Land Owner: Dept. of Energy/ Bureau of Land Management
18. Federal Administrative Units: Idaho National Engineering and Environmental Laboratory
19. Location of Curated Materials: Permanent: Idaho Museum of Natural History, Temporary: INEEL Cultural Resource Management Office, Idaho Falls, ID.
20. Site Description: Dense pile of stamped metal parts, probably removed from a high horsepower low torque engine. Before being cannibalized, this machine may have pumped water for any number of Carey Land Act/Desert Reclamation Act irrigation projects in the area. Other artifacts associated with the machine parts include domestic debris (food cans, food jars, liquor bottles, cosmetic jars) as well as other materials probably related to agricultural operations (rubber irrigation boots, oil cans leather work boot fragments). Most of these items probably date to a 1960s – 1970s time frame. The site is located in a nondescript topographic area adjacent to State Highway 28.
21. Site Condition: [X] Excellent (A) [ ] Good (B) [ ] Fair (C) [ ] Poor (D)
22. Impact Agent(s): None

23. National Register Status [ ] Significant (C) [ ] Non-Significant (D) [X] Unevaluated (Z)

Justify: Debris from this site does not appear to be old enough to qualify for National Register nomination. However, it is possible that older materials are located beneath the debris currently exposed at the surface.

24. Photos: Digital photos (03-17-02-01 through 03)

25. Recorded by: B. R. Pace

26. Survey Organization: INEEL CRM Office 28. Survey Date: April 11, 2003

27. Assisting Crew Members: Jack Dittman

Part A – Environmental Data Site No.(s) _____

29. Slope: None o Aspect: None o

30. Distance to Permanent Water: 150 (x 100 meters)

*Type of Water Source [ ] Spring/Seep (A) [ ] Stream/River (B) [X] Lake (C) [ ] Other (D)

Name of water source Mud Lake

31. Geographic Unit: S5C:Pioneer Basin

32. Topographic Location:

PRIMARY LANDFORM			SECONDARY LANDFORM		
[ ] Mountain Spine (A)	[ ] Alluvial Fan (A)	[ ] Dune (I)	[ ] Slope (Q)	[ ] Riser (Y)	
[ ] Hill (B)	[ ] Alcove/Shltr (B)	[ ] Floodplain (J)	[ ] Terrace/Bench (R)	[ ] Multiple (1)	
[ ] Mesa (C)	[ ] Arroyo (C)	[ ] Ledge (K)	[ ] Talus Slope (S)	[ ] Bar (2)	
[ ] Ridge (D)	[ ] Basin (D)	[ ] Mesa/Butte (L)	[ ] Island (T)	[ ] Lagoon (3)	
[ ] Valley (E)	[ ] Cave (E)	[ ] Playa (M)	[ ] Outcrop (U)	[ ] Eph Wash (4)	
[X] Plain (F)	[ ] Cliff (F)	[ ] Port Fea (N)	[ ] Bog (V)	[ ] Kipuka (5)	
[ ] Canyon (G)	[ ] Delta (G)	[X] Plain (O)	[ ] Valley (W)	[ ] Saddle/Pass (6)	
[ ] Island (H)	[ ] Monolith (H)	[ ] Ridge/Knoll (P)	[ ] Cutbank (X)	[ ] Graben (7)	

Describe: The site is located on the edge of a very flat area. Small localized sand dunes surround it.

33.

On-Site Depositional Context:

[ ] Fan (A)	[ ] Outcrop (Q)	[ ] Moraine (J)	[ ] Desert Pavement (P)
[ ] Talus (B)	[ ] Extinct Lake (F)	[ ] Flood Plain (K)	[ ] Stream Bed (R)
[ ] Dune (C)	[ ] Extant Lake (G)	[ ] Marsh (L)	[X] Aeolian (S)
[ ] Stream Terrace (D)	[ ] Alluvial Plain (H)	[ ] Landslide/Slump (M)	[ ] None (T)
[ ] Playa (E)	[ ] Colluvium (I)	[ ] Delta (N)	[ ] Residual (U)

Description of Soil: Sandy silt with concentrations of fine sand.

34. Vegetation:

*a. Life Zone:

[ ] Arctic-Alpine (A)	[ ] Hudsonian (B)	[ ] Canadian (C)	[ ] Transitional (D)
[X] Upper Sonoran (E)		[ ] Lower Sonoran (F)	

*b. Community:

Q	Primary On-Site	M	Secondary On-Site	M	Surrounding Site

Aspen (A)	Other/Mixed Conifer (G)	Grassland/Steppe (M)	Marsh/Swamp (S)
Spruce-Fir (B)	Pinyon-Juniper (H)	Desert Lake Shore (N)	Lake/Reservoir (T)
Douglas Fir (C)	Wet Meadow (I)	Shadescale Community (O)	Agricultural (U)
Alpine Tundra (D)	Dry Meadow (J)	Tall Sagebrush (P)	Blackbrush (V)
Ponderosa Pine (E)	Oak-Maple Shrub (K)	Low Sagebrush (Q)	Mountain Brush (W)
Lodgepole Pine (F)	Riparian (L)	Barren (R)	Juniper-Sage (2)

Describe: Low sage and bunch grass

35 Miscellaneous Text

36 Comments/Continuations

List of Attachments

	Part B		Topo Map		Photos		Continuation Sheets
X	Part C		Site Sketch		Artifact/Feature Sketch		Other:

Part C – Historic Sites Site No.(s) 10-JF

BBWI-03-17-02

1. Site Type: Refuse Scatter
2. Historic Theme(s): Domestic activities, agriculture
3. Culture

	CULTURAL AFFILIATION	DATING METHOD	CULTURAL AFFILIATION	DATING METHOD
Method	European/American	Diagnostic artifacts		

Describe: cans, glass

4. Oldest Date: 1920s Recent Date: 1960s or 1970s
How Determined?: Oldest date: cans, recent date: rubber and leather boots, oil cans, paper labels

5. Site Dimensions: 10 m by 10 m *Area: 100 sq. m
6. Surface Collection/Method: [X] None (A) [ ] Designed Sample (C) [ ] Grab Sample (B) [ ] Complete Collection (D)
Sampling Method: No collection.

7. Estimated Depth of Cultural Fill: [X] Surface (A) [ ] 20 – 100 cm (C) [ ] Fill noted but unknown (E) [ ] 0 – 20 cm (B) [ ] 100 cm+ (D) [ ] Depth Suspected (F)
How Estimated? (If tested, show location on site map) N/A

8. Excavation Status: [ ] Excavated (A) [ ] Tested (B) [X] Unexcavated (C)
Testing Method: N/A
9. Summary of Artifacts and Debris:

[X]	Glass (GL)	[X]	Bone (BO)	[ ]	Leather (LE)	[ ]	Ammo (AM)	[X]	Domestic Items (DI)
[X]	Metal (ME)	[X]	Ceramics (CS)	[X]	Wire (WI)	[X]	Wood (WD)	[X]	Kitchen Utensils (KU)
[ ]	Nails (NC)	[ ]	Fabric (FA)	[X]	Tin Cans (TZ)	[ ]	Rubber (RB)	[ ]	Car Parts (CR)

Describe: The site consists of a dense pile of stamped machine parts originally from an engine that probably ran at low rpms and high torque. The engine may have originally been a large pump for large scale irrigation projects in the early 1900s. The stamped metal pieces that remain are not particularly diagnostic of this function however and it is possible that the parts are not of local origin. Other artifact s are associated with the stamped metal machine parts including a variety of modern "sanitary" food cans (MJB Coffee, Hormel chili, condensed milk) and clear Kerr bottles that probably also held food (mayonnaise, fruit, pickles, etc.). Scattered with these domestic items are rubber irrigation boots, leather work boots, and oil cans. Domestic and family-farm type activities are suggested by the debris. Can labels and the presence of rubber and leather in an open context suggest a late date of ca 1960. Paper labels on beer and other liquor bottles suggest an even later date.

10. Ceramic Artifacts:

PASTE	GLAZE	DECOR	PATTERN	VESSEL FORMS			#

Estimated Number of Ceramic Trademarks None observed.
Describe: None observed.

11. Glass Artifacts:

#	MANUFACTURE	COLOR	FUNCTION	TRADEMARKS	DECORATION
1	machine	clear	food	Kerr	none
1	machine	white	cold cream	unknown	none
4	machine	clear	food	unknown	none

Estimated Number of Glass Trademarks: 1

Describe: Only a few bottles were present. All were large, machine made, and reflective of domestic activities (food, canning).

12. Maximum Density - # / sq m (glass and ceramics): 2

13. Non-Architectural Features (locate on site map):

☐ Trail/Road (TR)	☐ Dump (DU)	☐ Earthen Dam (DA)	☐ Hearth/Campfire (HE)
☐ Mine Tailings (MT, ML)	☐ Depression (DE)	☐ Ditch (DI)	☐ Quarry (QU)
☐ Rock Alignment (RA)	☐ Cemetery/Burial (CB)	☐ Inscriptions (IN)	☐ Other (OT)

Describe: None observed.

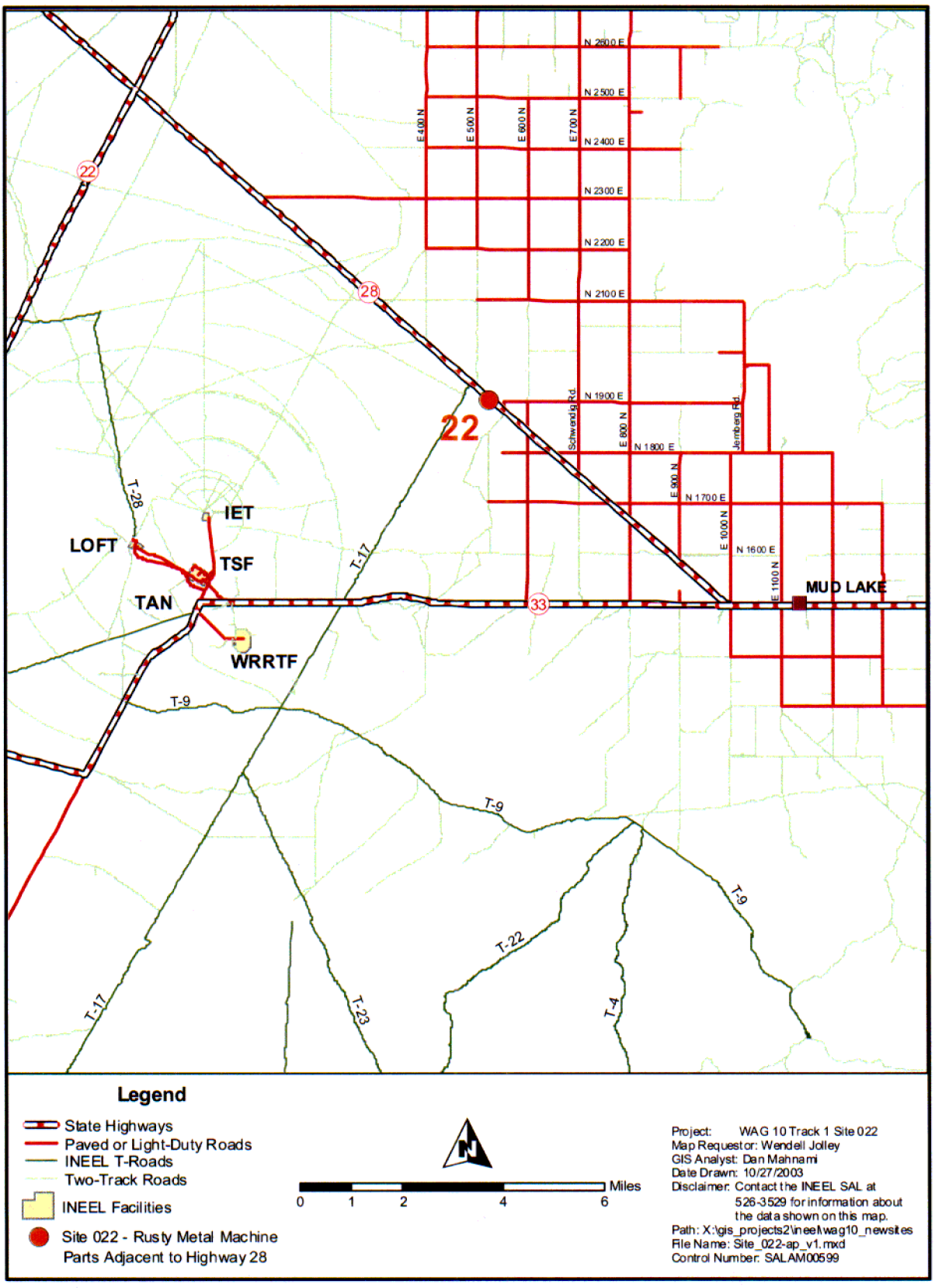
14. Architectural Features (locate on site map):

#	MATERIAL	TYPE	#	MATERIAL	TYPE

Describe: None observed.

15. Comments/Continuations

Site Map


N 2600 E
N 2500 E
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N 2100 E
N 1900 E
N 1800 E
N 1700 E
N 1600 E
E 400 N
E 500 N
E 600 N
E 700 N
E 800 N
E 900 N
E 1000 N
E 1100 N
Schwendig Rd.
Jermberg Rd.
22
28
33
T-28
T-17
T-9
T-22
T-23
T-4
IET
LOFT
TSF
TAN
WRRTF
MUD LAKE
Legend
State Highways
Paved or Light-Duty Roads
INEEL T-Roads
Two-Track Roads
INEEL Facilities
Site 022 - Rusty Metal Machine Parts Adjacent to Highway 28
Miles
0 1 2 4 6
Project: WAG 10 Track 1 Site 022
Map Requestor: Wendell Jolley
GIS Analyst: Dan Mahnami
Date Drawn: 10/27/2003
Disclaimer: Contact the INEEL SAL at 526-3529 for information about the data shown on this map.
Path: X:\gis_projects2\ineel\wag10_newsites
File Name: Site_022-ap_v1.mxd
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